

VERIFICATION AND CORRECTION OF 10GBASE-X LANE ROUTING BETWEEN NODES

ABSTRACT OF THE DISCLOSURE

In a network having a first node and a second node, a method of verifying a lane routing between the first node and the second node. The first node and the second node operate according to a protocol in which: (1) a character is converted to code groups, (2) each code group has a corresponding lane, and (3) the code groups are communicated across the lanes in a parallel manner. A first set of code groups is transmitted from the first node. Preferably, the first set of code groups is different from a set of code groups predefined by the protocol. A second set of code groups is received at the second node. The second set of code groups corresponds to the first set of code groups. A determination is made whether the second set of code groups matches the first set of code groups. An identity of the first set of code groups can be preprogrammed within the second node. Preferably, the first set of code groups has a different code group in each lane. Optionally, the lane routing between the first node and the second node is corrected if the second set of code groups mismatches the first set of code groups.

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